

CLAIMS

1. Device for adjusting the pressure in the chambers of a hydraulic jack comprising a hollow valve seat (5) extending substantially longitudinally between two end sections, the body of the valve seat (5) being
5 connected to a source of pressurised fluid (18), each of the end sections of the valve seat (5) being linked to a chamber of the hydraulic jack and adapted to receive a valve (7a, 7b) allowing to control the refilling with hydraulic fluid of said chamber of the
10 jack, characterised in that a valve return spring (6) is placed inside said valve seat (5) and in that each of the ends of said valve return spring (6) is attached to one of said valves (7a, 7b).

2. Device set forth in claim 1, characterised in
15 that it prevents the circulation of hydraulic fluid from said chambers of the jack towards said valve seat (5), said valves (7a, 7b) thus also acting as an orifice to the back flow stop valves.

3. Device set forth in any of the previous
20 claims, characterised in that one of the valves (7a, 7b) is spaced apart from its equilibrium position in contact with the corresponding end section of said valve seat (5) from the moment a sufficient difference in pressure exists between the chamber of the hydraulic
25 jack to which said end section of said valve seat (5) is linked and the inside of said valve seat (5), in this way authorising the refilling with pressurised fluid of said chamber of the jack.

4. Device set forth in any of the previous claims, characterised in that each of the ends of the valve return spring (6) is attached to one of the valves (7a, 7b) substantially at its centre in a
5 suitable manner so that the movable equipment constituted of said spring (6) and said valves (7a, 7b) does not need to be guided.

5. Device set forth in any of the previous claims, characterised in that the valves (7a, 7b) are
10 of spherical or conical span.

6. Device set forth in any of the previous claims, characterised in that a hole passing through each of the valves (17a, 17b) and each of the end sections of said spring (6) forming an end wire capable
15 of being feed through said holes, said end sections forming wire extend beyond said holes and are welded upon exiting said holes to said valves (17a, 17b) to allow to attach each of the ends of said spring (6) to one of said valves (17a, 17b).

20 7. Device set forth in claim 6, characterised in that an adjustment to the tension of the spring (6) is performed, once a first end section of said spring (6) forming an end wire welded to a first valve, by puling on the other end section of said spring (6) through the
25 hole diametrically passing through the second valve until it reaches the desired tension load, said other end section of said spring (6) then being welded to said second valve.

8. Device set forth in any of claims 1 to 5,
30 characterised in that the valves (16a, 16b) comprise a centring pin (14a, 14b) with a hole (15a, 15b) drilled

out and each of said end sections of said spring (6) forming an end loop, said end loops are received in the holes (15a, 15b) of said centring pins (14a, 14b) to allow to attach each of the ends of said spring (6) to
5 one of said valves (16a, 16b).

9. Device set forth in any of the previous claims, characterised in that said valves (7a, 7b) cannot be simultaneously spaced from said end sections of said valve seat (5), the simultaneous filling of
10 said chambers of said jack thus being prevented.